

CLAIMS

1. Plate fins for heat exchanger: comprising a thin strip-shaped metal plate (18) having many cut portions (2) which are cut in the width direction thereof remaining connected portions (1) of a small length respectively relative to the full width thereof, wherein each cut portion (2) is disposed away from each other at fixed intervals in the longitudinal direction;

slits (3) crossing the cut portions (2) having each cut portion as a center are disposed in parallel being away from each other in said width direction in said strip-shaped metal plate (18);

said strip-shaped metal plate (18) is bent in a manner of a zigzag at said connected portion (1) to form an aggregation (24) of continuous fin elements;

flat tubes (4) can be engaged with said slits (3) from the opening side that are formed in front and rear side respectively in the aggregation (24) of the fin elements.

2. The plate fins for heat exchanger according to claim 1, wherein said slits (3) neighboring in the longitudinal direction of said strip-shaped metal plate (18) are disposed in a zigzag manner.

3. The plate fins for heat exchanger according to claims 1 or 2, wherein said connected portion (1) extends in the direction towards said slits (3), one

of the two sides (5) thereof is formed in a V-like shape and another is formed in an inversed V-like shape opposing to each other, and the protruding portion of each V-like shape is bent to form a bent portion (20).

4. A heat exchanger core, using any one of plate fins for heat exchanger according to any of claims 1 to 3, wherein

flat tubes (4) are engaged with aggregation portion of slits (3) formed in the front and rear sides respectively of the aggregation (24) of said fin elements from the opening side of the slits (3).

5. The heat exchanger core according to claim 4, wherein the periphery of the flat tube (4) and said slits (3) are brazed.